

AMENDMENTS TO THE CLAIMS

1-14. (Cancelled)

15. (Currently Amended) A visual data adaptation method comprising:

adapting visual data in response to received first display capability information of a first display device in a ~~separate~~ first user terminal and a usage environment of the ~~separate~~ first user terminal;

adapting the visual data in response to received second display capability information of a second display device in a second user terminal and according to a usage environment of the second user terminal;

outputting first adapted visual data to the first user terminal; and

outputting ~~the second~~ adapted visual data to the ~~separate second~~ user terminal, wherein the first and second display capability information ~~is~~ are hierarchically structured to include backlight luminance information as a sub-element of the display capability information, and the backlight luminance information is described as a numerical value ranging from a lowest possible value to a highest possible value that is adjusted according to the usage ~~environment~~ environments of the ~~separate user terminal~~ first and second user terminals to provide a single-source, multi-use environment, where one content is adapted to and used in different usage environments.

16. (Previously Presented) The visual data adaptation method as recited in claim 15, wherein the visual data is RGB data of pixels.

17. (Previously Presented) The visual data adaptation method as recited in claim 15, wherein the adaptation is to control pixel value of the visual data according to the backlight luminance information by shifting an RGB value, controlling the brightness or contrast of a visual signal, warping histogram, warping histogram in a YUV space, or warping intensity in a Hue, Intensity and Saturation (HIS) space.

18. (Previously Presented) The visual data adaptation method as recited in claim 15, wherein the backlight luminance information is adjusted according to the adjusted visual data transmitted from the separate user terminal.

19. (Currently Amended) A visual data adaptation apparatus comprising:

an adaptation means for adapting visual data in response to received display capability information of a first display device in a ~~separate first~~ user terminal and a usage environment of the ~~separate first~~ user terminal and for adapting the visual data in response to received second display capability information of a second display device in a second user terminal and according to a usage environment of the second user terminal; and

an outputting means for outputting ~~the first~~ adapted visual data to the ~~separate first~~ user terminal and for outputting second adapted visual data to the second user terminal, wherein the first and second display capability information ~~is~~ are hierarchically structured to include backlight luminance information as a sub-element of the display capability information, and the backlight luminance information is described as a numerical value ranging from the lowest possible value to the highest possible value that is adjusted according to the usage ~~environment environments~~ of the ~~separate user terminal~~ first and second user terminals to provide a single-source, multi-use environment, where one content is adapted to and used in different usage environments.

20. (Previously Presented) The visual data adaptation apparatus as recited in claim 19, wherein the visual data is RGB data of pixels.

21. (Previously Presented) The visual data adaptation apparatus as recited in claim 19, wherein the adaptation means controls pixel value of the visual data according to the backlight luminance information by shifting an RGB value, controlling the brightness or contrast of a visual signal, warping histogram, warping histogram in a YUV space, or warping intensity in a Hue, Intensity and Saturation (HIS) space.

22. (Previously Presented) The visual data adaptation apparatus as recited in claim 19, wherein the backlight luminance information is adjusted according to the adjusted visual data transmitted from the separate user terminal.

23. (Currently Amended) A computer readable storage medium in which metadata is recorded, the metadata comprising:

first display capability information of a first display device in a first user terminal, second display capability of a second display device in a second user terminal, wherein visual data is adapted by a video adaptation apparatus ~~that is separate from the first and second user-terminal terminals~~ according to the first display capability information and a usage environment of the separate first user terminal and according to the second display capability information and a usage environment of the second user terminal, and the first and second display capability information is are hierarchically structured to form a first adapted visual data include backlight luminance information as a sub-element of the first and second display capability information, and the backlight luminance information is described as a numerical value ranging from the lowest possible value to the highest possible value that is adjusted according to the usage ~~environment environments~~ of the ~~separate user terminal~~ first and second user terminals to provide a single-source multi-use environment where one content is adapted to and used in different usage environments.

24. (Previously Presented) The computer readable storage medium as recited in claim 23, wherein the visual data is RGB data of pixels.

25. (Previously Presented) The computer readable storage medium as recited in claim 23, wherein the adaptation is to control pixel value of the visual data according to the backlight luminance information by shifting an RGB value, controlling the brightness or contrast of a visual signal, warping histogram, warping histogram in a YUV space, or warping intensity in a Hue, Intensity and Saturation (HIS) space.

26. (Previously Presented) The computer readable storage medium as recited in claim 23, wherein the backlight luminance information is adjusted according to the adjusted visual data transmitted from the separate user terminal.